

REMARKS

I. Introduction

Applicant thanks the Examiner for accepting Applicant's previous amendment and pointing out that some of the claims were labeled with an incorrect status. The Examiner also suggested that Applicant may be been addressing a different claim set than the Examiner. In order to avoid further confusion, Applicant has cancelled all previous claims without prejudice or disclaimer in favor of the new claim set. While the new claim set has significant similarities to the previous sets, it also has differences that Applicant hopes will clarify the inventions claimed therein. No new matter has been added.

Applicant also notes that the Examiner inquired as to the nature of the "key encryption key" as previously recited in claims 6 and 12. Applicant respectfully submits that the "key encryption key" is discussed at length in the specification at least at paragraphs 20 and 21. The use of the key encryption key to encrypt an interchip key for a respective chip package is believed to be sufficiently definite in the new set of claims.

II. Prior Art Rejections

Neither Candelore (6,697,489)(Candelore '489), Candelore (2003/0188162) (Candelore '162) nor Craft, taken alone or in combination disclose or suggest the claimed invention recited by the above amended claims. Neither Candelore '489 nor Craft appear to be related to interchip data protection. Candelore '489 is primarily concerned with an ability to update an access control system, and proposes to do so by essentially downloading scrambled and encrypted control words to a conditional access system. See, Candelore '489, col. 2, ln. 58 through col. 3, ln. 20. Candelore '489 merely discloses to use a smart card to provide secure control words for

scrambled digital content by using encrypted control words which are decrypted by a key in the descrambler. Candelore '489, abs. Fig. 2. Candelore '489 does not disclose to use a key register in a first body which cannot be overwritten after a programmability period in which the first key is loaded in the first key storage, and a second key storage register in a second body which is non-readable from outside the second body, the second key storage register being writeable while being non-readable as substantially recited in Applicant's amended claims.

Craft also is not principally concerned with interchip security. Craft is concerned with a distributed computer network and providing security between the several devices on the network. Craft does not appear to be concerned with protecting interchip content pathways within a device. As such, Craft also does not disclose a processing unit for protecting interchip content pathways which has a first chip package having first body which cannot be overwritten after a programmability period in which the interchip key is loaded in the first key storage, and a second key storage register in a second body which is non-readable from outside the second body, the second key storage register being writeable while being non-readable as substantially recited in Applicant's amended claims.

As explained in Applicant's previous response, Candelore '162 merely discloses to restrict access to a hard drive by "locking" the hard drive using a randomly generated key, hereafter referred to as the "hard drive locking key". Candelore '162, paras. [0030 – 0034]. The hard drive locking key discussed in Candelore '162 does not appear to be used for encrypting the content of data contained on or provided by the hard drive, aka is not used by an encryption engine "to produce ciphertext content", as recited by at least Applicant's claim 1. Moreover, the hard drive locking key is a randomly generated key which changes at each use, and hence is constantly overwritten. Candelore '162, para. [0031] "the first key is a random number

generated by the host each time a hard drive needs to be locked[. T]his is to prevent ‘spoofing’ and unlocked hard drive.” Candalore ‘162 also explains that the key is stored in “the hard drive’s flash memory”, which is typically a rewritable memory. Oddly, the Examiner merely “disagreed” with Applicant’s discussion but failed to identify any reason for the disagreement. Instead, the Examiner merely directed Applicant to Candalore ‘489, which is clearly not a reason to refute Applicant’s discussion of Candalore ‘162.

Accordingly, Candalore ‘162 also does not disclose to use a key register in a first body which cannot be overwritten after a programmability period, as substantially recited in Applicant’s claims.

Applicant also explained that Candalore ‘162 is not even analogous art and even teaches away from the claimed invention according to accepted legal principles. Specifically, Applicant explained that, the hard drive locking key discussed in Candalore ‘162 is not a key used for encryption to produce ciphertext, and hence is not analogous art to Applicant’s invention as it is not in the same field of endeavor or concerned with the same problems faced by Applicant. Finally, Candalore ‘162 actually appears to teach away from a system which prevents rewriting a key register since Candalore ‘162 discloses to constantly change the key to avoid a concern of ghosting. Hence the combination of Candalore ‘489 and Candalore ‘162 does not produce the claimed invention as it does not disclose all of the claimed limitations in any of independent claims 1, 13, 22 or 23. Moreover, the combination is improper as applied against the claimed invention because Candalore ‘162 is not analogous art and actually teaches away from Applicant’s invention.

III. Conclusion

Having fully responded to the Office action, the application is believed to be in condition for allowance. Should any issues arise that prevent early allowance of the above application, the examiner is invited contact the undersigned to resolve such issues.

To the extent an extension of time is needed for consideration of this response, Applicant hereby request such extension and, the Commissioner is hereby authorized to charge deposit account number 502117 for any fees associated therewith.

Respectfully submitted,

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